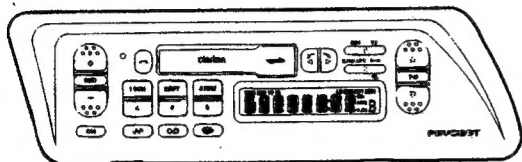
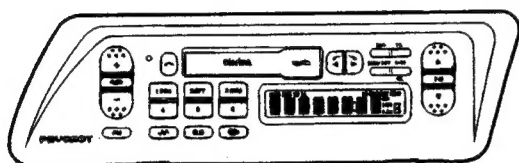


Service Manual



PU-1570A



PU-1570B,C

PEUGEOT Automobile Genuine
RDS/FM/MW/LW Radio
Cassette Stereo

Model **PU-1570A**

(Genuine No. 96 317 418 80)

Model **PU-1570B**

(Genuine No. 96 317 417 80)

Model **PU-1570C**

(Genuine No. 96 317 417 80)

■ SPECIFICATIONS

Radio section

Tuning system: PLL Frequency synthesizer system
Receive range: FM 87.5MHz to 108.0MHz
MW 531kHz to 1,602kHz
LW 153kHz to 279kHz

Intermediate frequency:

FM 10.7MHz
MW/LW 450kHz

Quieting sensitivity: FM Less than 15dB μ (30dB S/N)
MW Less than 34dB μ (20dB S/N)
LW Less than 41dB μ (20dB S/N)

Separation: FM More than 18dB

Auto tuning stop sensitivity:

FM(DX) 25 ± 8 dB μ
(LO) 45 ± 10 dB μ
MW(DX) 30 ± 10 dB μ
(LO) 60 ± 10 dB μ
LW(DX) 30 ± 10 dB μ
(LO) 62 ± 10 dB μ

Tape section

Reproducing system:

4 track 2 program
2 channel stereo system

Wow and flutter: Less than 0.25%(W.R.M.S)
Separation: More than 35dB
Cross talk: More than 40dB
S/N ratio: More than 45dB
FF/REW time: 180sec.(C-60)

General

Load impedance: 4 Ω /ch
Output power: 8W \times 4(Max.)
Power supply voltage:
DC13.5V(10.8V to 15.6V)
Negative ground

Consumptive current:

Less than 10A

Dimensions(mm): 178(W) \times 50(H) \times 180(D)

Weight(kg): 1.3

※ Specifications and design are subject to change without notice for further improvement.

■ COMPONENTS

PU-1570A-A / B-A / C-A

Main unit

■ To engineers in charge of repair or inspection of our products.

Before repair or inspection, make sure to follow the instructions so that customers and Engineers in charge of repair or inspection can avoid suffering any risk or injury.

1. Use specified parts.

The system uses parts with special safety features against fire and voltage. Use only parts with equivalent characteristics when replacing them.

The use of unspecified parts shall be regarded as remodeling for which we shall not be liable. The onus of product liability (PL) shall not be our responsibility in cases where an accident or failure is as a result of unspecified parts being used.

2. Place the parts and wiring back in their original positions after replacement or re-wiring.

For proper circuit construction, use of insulation tubes, bonding, gaps to PWB, etc., is involved. The wiring connection and routing to the PWB are specially planned using clamps to keep away from heated and high voltage parts. Ensure that they are placed back in their original positions after repair or inspection.

If extended damage is caused due to negligence during repair, the legal responsibility shall be with the repairing company.

3. Check for safety after repair.

Check that the screws, parts and wires are put back securely in their original position after repair. Ensure for safety reasons there is no possibility of secondary problems around the repaired spots.

If extended damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

4. Caution in removal and making wiring connection to the parts for the automobile.

Disconnect the battery terminal after turning the ignition key off. If wrong wiring connections are made with the battery connected, a short circuit and/or fire may occur. If extensive damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

5. Cautions regarding chips.

Do not reuse removed chips even when no abnormality is observed in their appearance. Always replace them with new ones. (The chip parts include resistors, capacitors, diodes, transistors, etc). The negative pole of tantalum capacitors is highly susceptible to heat, so use special care when replacing them and check the operation afterwards.

6. Cautions in handling flexible PWB

Before working with a soldering iron, make sure that the iron tip temperature is around 270°C. Take care not to apply the iron tip repeatedly (more than three times) to the same patterns. Also take care not to apply the tip with force.

7. Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.

■ COMPUTER ANTI-THEFT SYSTEM

This unit has a built-in Computer Anti-Theft System (CATS) which makes the radio inoperative if power to the unit is interrupted for any reason whatsoever (including disconnection and reconnection of the car battery). The radio will remain inoperative unless you enter the correct CATS number.

RELEASE the CATS

1. Press the power button to turn the power on.
2. "CODE IN" appear on the display.
3. Enter the code number using the preset buttons.
4. If the entered code number is correct, the radio turns on. A radio frequency appears on the display.

5. If the entered code number is incorrect, the numbers on the display and nothing happens.

6. To enter the code number again, press and hold down the band button for at least 3 seconds. "CODE IN" reappears on the display. Enter the correct code number.

7. If you enter an incorrect code number three times in succession, the system will not accept another code input for one hour, even if you press the band button for more than 3 seconds. If at the end of that hour you enter an incorrect code number again, you will have to wait another hour to try once more and so on.

■ ADJUSTMENTS

Item	Procedure	Measuring instrument
FM S-meter	1. Press the RDS button and M6 button to RDS test mode. 2. Input a 98.1MHz/30dB μ (400Hz, 30% mod) signal of RDS test mode. 3. Adjust VR1 of tuner pack so that an output of TP908 is $3.0 \pm 0.1V$.	SSG Milli volt meter
FM Noise convergence	1. Input a 98.1MHz/55dB μ (400Hz, 30% mod) signal. 2. Set an output level to 0dB (=775mV) with main volume. 3. Adjust VR101 so that the output is $-25 \pm 1dB$ when SSG output is set $-20dB \mu$.	SSG Milli volt meter

EXPLANATION OF IC

μPD178006GC-514-3B9

052-1140-00

System controller

Outward Form

80 pins, plastic QFP

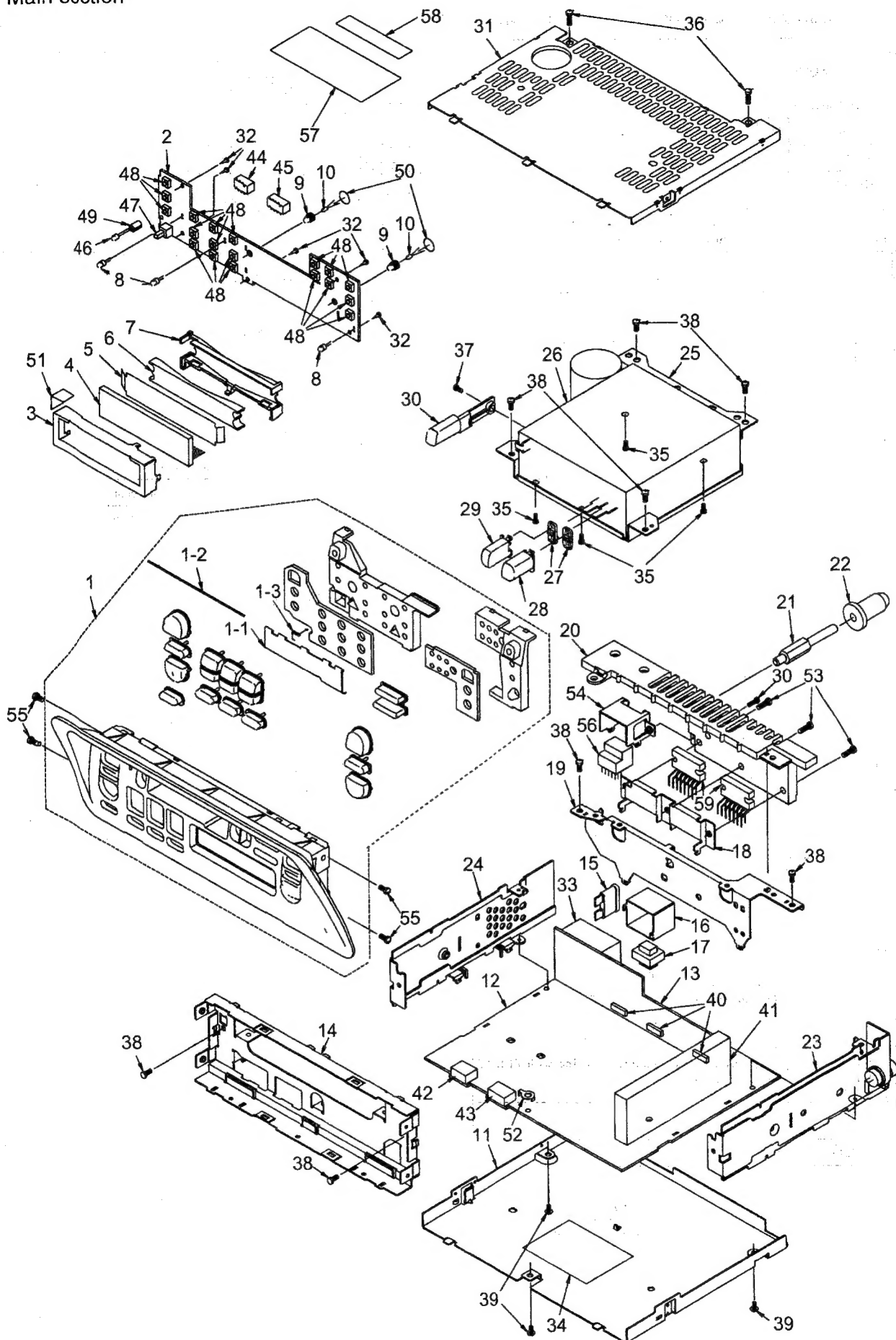
Terminal Description

No.	Symbol	I/O	Function
1	REMOCON	I	Remote controller input
2	S-METER	I	FM signal meter input
3	NOISE	I	FM noise input
4	RDS-MUTE	O	FM muting signal output
5	N.C.	O	Not in use
6	A-MUTE	O	Audio power IC muting signal output
7	LCD SI	I	Serial data communication line with LCD driver IC
8	LCD SO	O	
9	LCD CLK	O	
10	LCD CE	O	
11	N.C.	O	Not in use
12	C-BUS SO	O	C-BUS line
13	C-BUS SI	I	
14	C-BUS CLK	O	
15	NOISE CL	O	Output terminal to discharge the condenser in the FM noise detecting circuit, to eliminate noise. "H": eliminate noise, "L": ready to detect noise
16	N.C.	O	Not in use
17	IF REQ	O	IF count request signal output
18	FM SD	I	FM station detect signal input
19	AM SD	I	AM station detect signal input
20	N.C.	I	Not in use
21	GND	-	Ground terminal
22	VDD	-	Electric power terminal
23	CATS INIT	I	Initialize signal input for CATS-EEPROM
24	INIT 1	I	Initially established signal input
25	INIT 2	I	
26	TEST	I	Not in use
27	N.C.	I	Not in use
28	N.C.	I	
29	N.C.	I	
30	VDD-PLL	-	Power terminal for PLL
31	N.C.	I	Not in use
32	N.C.	I	
33	GND-PLL	-	Ground terminal for PLL
34	EO 0	O	Not in use
35	EO 1	O	
36	IC	-	Connected to ground
37	PLL LOCK	O	Indicates that PLL is locked. "H": locked
38	PI READ	O	Indicates that PI data reading has completed.
39	PLL CE	O	Serial data communication line with PLL IC (LC72146)
40	PLL DI	I	
41	PLL DO	O	
42	PLLCLK	O	
43	N.C.	I	Not in use
44	N.C.	I	
45	FM DX/LO	O	"L": local
46	AM DX/LO	O	"H": local
47	CATS IND	O	Outputs signal to blink CATS indicator
48	RDS +B	O	Outputs RDS power supply control signal
49	C-BUS SRQ	I	Inputs C-BUS slave request signal
50	TEL MUTE	I	Inputs telephone detect signal
51	EEP-ROM CE	O	Serial data communication line with CATS EEPROM (NM93C46)
52	EEP-ROM DI	I	
53	EEP-ROM DO	O	
54	EEP-ROM CLK	O	

No.	Symbol	I/O	Function
55	N.C.	O	Not in use
56	P+14V	O	Outputs 14V power supply control signal
57	P+5V	O	Outputs 5V power supply control signal
58	FWD/REV	I	"L": forward, "H": reverse
59	BEEP	O	Beep signal output (3kHz)
60	FF/REW	I	"L": fast forward, "H": rewind
61	MECH ON	O	"H": turns on tape mechanism motor
62	PACH IN	I	"L": tape in, "H": tape out
63	APC	O	Outputs "H" when the system is ready to operate APC.
64	MTL	O	"H": metal tape
65	DOLBY	O	"H": Dolby ON
66	RDS DATA	I	RDS data input
67	RDS CLK	I	RDS clock input
68	B/U DET	I	"H": backup ON
69	ACC DET	I	"H": ACC ON
70	LCD SI INT	I	Terminal to input interruption signal to shift to operation mode when key is pressed in Stop mode. Connects to LCD-Si.
71	CATS IN	I	"L": ISO connector not connected
72	VOL. DATA	O	Serial data communication line to volume IC (M62419)
73	VOL. CLK	O	
74	CPU REG	-	Connected to GND through a capacitor
75	GND	-	Ground
76	X 2	-	Crystal connecting terminal
77	X 1	I	
78	OSC REG	-	Connected to GND through a capacitor
79	VDD	-	Power terminal
80	RESET	I	Reset signal input

EXPLODED VIEW · PARTS LIST

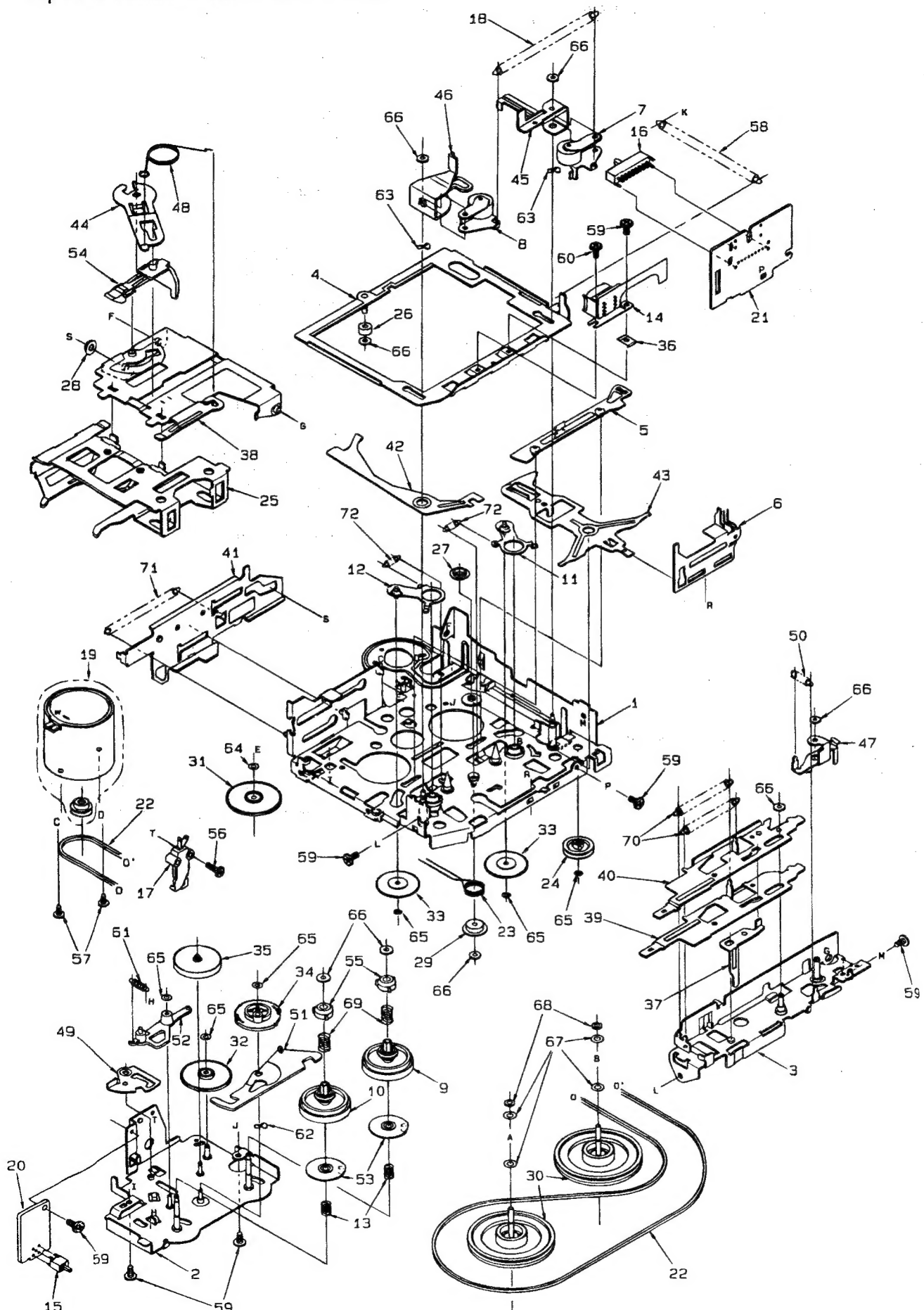
Main section



NO.	PART NO.	DESCRIPTION	Q'TY
1	940-7799-65 940-7807-65	ESCUTCHEON ASS'Y(A-A) ESCUTCHEON ASS'Y(B-A,C-A)	1
1-1	320-0485-84	DUSTPROOF COVER	1
1-2	341-1278-01	SHAFT	1
1-3	750-3274-00	SPRING	1
2	039-1040-00	SWITCH PWB	1
3	331-0416-0L	LCD COVER	1
4	379-1085-41	INDICATOR	1
5	347-3953-02	FILM	1
6	335-4707-02	ILLUMI PLATE	1
7	335-4706-0L	LCD HOLDER	1
8	017-0420-11	PILOT LAMP	3
9	345-3814-75	LAMP CAP	2
10	017-0414-00	PILOT LAMP	2
11	311-1692-01	LOWER CASE	1
12	039-1039-01	MAIN PWB	1
13	039-0911-01	CONNECTER PWB	1
14	309-0681-00	FRONT PLATE	1
15	060-0057-56	AUTO FUSE(10A)	1
16	331-2009-00	SHIELD CASE	1
17	009-9006-60	CHOKE	1
18	331-0613-20	IC HOLDER	1
19	307-0581-00	REAR COVER	1
20	331-1677-00	HEAT SINK	1
21	716-1770-00	REAR VOLT	1
22	345-4847-01	STOPER	1
23	305-0252-00	SIDE PLATE(R)	1
24	305-0253-00	SIDE PLATE(L)	1
25	331-1993-00	MECH BRACKET	1
26	930-0722-86	TAPE MECHANISM	1
27	335-4358-01	BUTTON SPACER	2
28	382-3950-00	BUTTON(FW)	1
29	382-3951-00	BUTTON(REW)	1

NO.	PART NO.	DESCRIPTION	Q'TY
30	382-3949-00	BUTTON(EJECT)	1
31	310-1614-00	UPPER CASE	1
32	716-0778-00	WAVE SCREW	5
33	074-1155-10	OUTLET SOCKET	1
34	286-8497-16 286-8497-19 286-8497-20	SETPLATE(A-A) SETPLATE(B-A) SETPLATE(C-A)	1
35	714-3004-81	MACHINE SCREW	4
36	731-3008-80	TAPTIGHT	2
37	716-1580-00	SCREW	1
38	731-3006-80	TAPTIGHT	9
39	716-0878-00	IT SCREW	3
40	076-0324-06	PLUG	3
41	880-2080B	TUNER PACK	1
42	076-0540-06	PLUG	1
43	076-0540-08	PLUG	1
44	074-1152-06	OUTLET SOCKET	1
45	074-1152-08	OUTLET SOCKET	1
46	001-0207-00	LED DIODE	1
47	013-4001-00	SWITCH(POWER)	1
48	013-3978-00	SWITCH	19
49	335-4513-01	SPACER	1
50	353-0359-00	SHADE	2
51	353-2022-03	SHADE	1
52	073-0731-01	TERMINAL	1
53	714-3008-81	MACHINE SCREW	3
54	331-2006-00	DIN HOLDER	1
55	716-0821-03	IT SCREW	4
56	074-1126-00	OUTLET SOCKET	1
57	285-1628-00	GUIDE LABEL(2850177M0)	1
58	285-1627-00	GUIDE LABEL(2850224M0)	1
59	051-2009-00	POWER IC	2

Tape mechanism section : 930-0722-86



NO.	PART NO.	DESCRIPTION	Q'TY	NO.	PART NO.	DESCRIPTION	Q'TY
1	960-4180-05	DECK ASS'Y	1	37	630-2488-02	SELECT PLATE	1
2	960-4181-06	BOTTOM ASS'Y	1	38	630-2494-07	GUIDE ARM	1
3	960-4182-04	FRAME ASS'Y	1	39	630-2496-03	REW LEVER	1
4	960-4184-06	HEAD ASS'Y	1	40	630-2497-03	FF LEVER	1
5	960-4186-02	FF-REW-P ASS'Y	1	41	630-2498-32	EJECT LEVER-C	1
6	960-4427-01	HEAD-SW ASS'Y	1	42	630-2499-01	CHANGE LEVER	1
7	960-4188-03	ROLLER ASS'Y F	1	43	630-2501-02	CHANGE PLATE	1
8	960-4189-03	ROLLER ASS'Y R	1	44	630-2502-05	SWING ARM	1
9	960-4190-10	REEL ASS'Y F	1	45	630-2505-02	FF-REW LINK	1
10	960-4191-10	REEL ASS'Y R	1	46	630-2506-05	RELEASE LINK	1
11	960-4192-02	IDLER ASS'Y F	1	47	630-2507-04	LOCK LINK	1
12	960-4193-02	IDLER ASS'Y R	1	48	750-2910-03	SLOT SPRING	1
13	750-2919-03	CHECK SPRING-R	2	49	630-2529-01	MUTE PLATE	1
14	011-0313-15	HEAD	1	50	750-2909-04	LOCK SPRING	1
15	013-3906-00	SWITCH (MUTE)	1	51	631-1958-05	CHECK LINK	1
16	013-3922-00	SWITCH (FWD/REV)	1	52	631-1959-01	CHANGE LINK	1
17	013-3924-00	SWITCH (PACK DET)	1	53	631-1961-03	CHECK PLATE	2
18	750-2912-01	PINCH SPRING	1	54	631-1963-04	PACK STOPPER	1
19	SMA-141-100	MOTOR ASS'Y	1	55	631-1967-00	SLIDE BUSH	2
20	099-9126-00	MUTE PWB	1	56	714-2008-81	MACHINE SCREW	1
21	099-9669-01	HEAD PWB	1	57	716-0484-02	SCREW	2
22	602-0115-00	BELT	1	58	750-2908-02	HEAD SPRING	1
23	750-2911-01	HOLDING SPRING	1	59	716-1471-00	S-TYTE 2-3	7
24	604-0042-01	TENSION PULLEY	1	60	716-1473-01	HEAD SCREW	1
25	606-0100-05	PACK GUIDE	1	61	750-2907-03	CHANGE-L-SPRING	1
26	610-0333-01	HEAD ROLLER A	1	62	745-0752-00	PLATE SPRING	1
27	610-0334-01	HEAD ROLLER B	1	63	745-0756-00	SPRING WASHER	2
28	610-0335-02	EJECT ROLLER	1	64	746-0624-00	WASHER	1
29	610-0336-01	SP ROLLER	1	65	746-0724-00	WASHER	6
30	611-0090-04	FLYWHEEL	2	66	746-0768-00	WASHER	8
31	613-0272-10	GEAR A	1	67	746-0839-00	CAPSTAIN WASHER	4
32	613-0273-02	GEAR B	1	68	746-0869-00	WASHER	2
33	613-0274-02	IDLER GEAR	2	69	750-2564-01	SLIDE SPRING	2
34	613-0275-03	CHANGE GEAR	1	70	750-2904-02	FF-REW SPRING	2
35	613-0277-02	CHECK GEAR	1	71	750-2905-02	EJECT SPRING	1
36	630-1279-00	SPACER	1	72	750-2906-00	IDLER SPRING	2

ELECTRICAL PARTS LIST

Main PWB section(B1)

Note) Several different parts of the same reference number are alternative parts.

One of those parts is used in the set.

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
BL 101	880-2080B		C 525	178-5632-78	0.056 μ F	D 903	001-0330-00	1SS119
C 102	176-1801-00	18pF CH	C 526	178-5622-78	5600pF	IC 201	051-0422-51	NJM4558D
C 104	176-2211-00	220pF CH	C 527	178-5622-78	5600pF	IC 202	051-1819-00	SAA6579T
C 105	178-1032-78	0.01 μ F	C 528	178-5622-78	5600pF	IC 301	051-0301-01	uPC1228HA
C 107	178-1042-78	0.1 μ F	C 529	183-1063-32	16V10 μ F	IC 421	051-6201-00	LC72146M
C 108	183-1053-62	50V1 μ F	C 530	183-1063-32	16V10 μ F	IC 501	051-5008-00	M62419FP
C 109	178-1032-78	0.01 μ F	C 531	178-5622-78	5600pF	IC 502	051-0422-51	NJM4558D
C 110	178-6822-78	6800pF	C 532	183-1073-12	6.3V100 μ F	IC 601	051-0160-01	HD74LS07P
C 111	178-1032-78	0.01 μ F	C 533	183-1063-32	16V10 μ F	IC 701	051-2009-00	TDA8561Q
C 113	182-4763-22	10V47 μ F	C 534	183-1063-31	16V10 μ F	IC 702	051-2009-00	TDA8561Q
C 114	178-1042-78	0.1 μ F	C 701	183-2253-62	50V2.2 μ F	IC 901	052-1140-00	μ PD178006GC-514-3B9
C 115	178-1232-78	0.012 μ F	C 702	183-2253-62	50V2.2 μ F	IC 903	051-1375-35	NM93C46TEM8
C 116	178-4732-78	0.047 μ F	C 703	183-2253-62	50V2.2 μ F	J 601	074-1126-00	DIN 13P
C 117	178-1232-78	0.012 μ F	C 704	183-2253-62	50V2.2 μ F	L 103	010-2230-69	5.6 μ H
C 118	178-4732-78	0.047 μ F	C 705	178-1022-78	1000pF	L 201	010-2230-76	22 μ H
C 119	178-1032-78	0.01 μ F	C 706	178-1022-78	1000pF	L 901	010-2230-76	22 μ H
C 120	176-1007-00	10pF CH	C 707	178-1022-78	1000pF	P 901	076-0540-06	PLUG 6P
C 121	178-1522-78	1500pF	C 708	178-1022-78	1000pF	P 902	076-0540-08	PLUG 8P
C 122	178-1042-78	0.1 μ F	C 709	172-1041-11	0.1 μ F	Q 101	125-0001-01	UN2111
C 201	176-5611-00	560pF CH	C 710	172-1041-11	0.1 μ F	Q 102	103-1306-00	2SD1306
C 202	176-5611-00	560pF CH	C 711	042-0447-00	16V2200 μ F	Q 103	125-2004-03	RN1403
C 203	178-2232-78	0.022 μ F	C 712	042-0447-00	16V2200 μ F	Q 601	102-2712-00	2SC2712
C 204	183-1063-51	35V10 μ F	C 714	178-2232-78	0.022 μ F	Q 701	125-2004-02	RN1402
C 205	178-2232-78	0.022 μ F	C 802	184-1083-22	10V1000 μ F	Q 802	101-1240-00	2SB1240
C 206	183-3363-21	10V33 μ F	C 803	183-1063-31	16V10 μ F	Q 803	125-2004-02	RN1402
C 207	178-1042-78	0.1 μ F	C 804	172-1041-11	0.1 μ F	Q 804	125-0013-07	RN2427
C 208	176-3311-00	330pF CH	C 805	178-1042-78	0.1 μ F	Q 805	100-1162-00	2SA1162
C 209	176-3311-00	330pF CH	C 806	183-1053-62	50V1 μ F	Q 806	102-2712-51	2SC2712G.L
C 210	178-1042-78	0.1 μ F	C 807	178-1042-78	0.1 μ F	Q 807	125-0013-07	RN2427
C 211	183-4763-11	6.3V47 μ F	C 808	183-1053-62	50V1 μ F	Q 808	100-1162-00	2SA1162
C 212	183-2253-61	50V2.2 μ F	C 809	183-1073-21	10V100 μ F	Q 809	102-2712-51	2SC2712G.L
C 213	176-5611-00	560pF CH	C 810	172-1041-11	0.1 μ F	Q 810	102-2712-00	2SC2712
C 214	178-1042-78	0.1 μ F	C 902	178-1042-78	0.1 μ F	Q 811	103-1858-50	2SD1858Q.R
C 215	176-8201-00	82pF CH	C 903	176-2201-00	22pF CH	Q 812	103-1858-50	2SD1858Q.R
C 216	176-4701-00	47pF CH	C 904	176-2201-00	22pF CH	Q 813	103-1858-50	2SD1858Q.R
C 217	176-3311-00	330pF CH	C 905	178-1042-78	0.1 μ F	Q 814	100-1162-00	2SA1162
C 301	183-1053-61	50V1 μ F	C 906	183-1073-12	6.3V100 μ F	Q 815	125-2004-02	RN1402
C 302	183-1053-61	50V1 μ F	C 907	178-1032-78	0.01 μ F	Q 816	103-1858-50	2SD1858Q.R
C 303	173-6811-11	680pF J	C 908	178-1042-78	0.1 μ F	Q 817	103-1858-50	2SD1858Q.R
C 304	173-6811-11	680pF J	C 909	183-1063-51	35V10 μ F	Q 818	103-1858-50	2SD1858Q.R
C 305	183-1073-12	6.3V100 μ F	C 911	178-1032-78	0.01 μ F	Q 819	100-1431-00	2SA1431
C 306	183-1063-31	16V10 μ F	C 912	176-1011-00	100pF CH	Q 820	103-1858-50	2SD1858Q.R
C 307	183-1063-51	35V10 μ F	C 913	176-1011-00	100pF CH	Q 821	103-1858-50	2SD1858Q.R
C 309	183-1073-12	6.3V100 μ F	C 914	178-1042-78	0.1 μ F	Q 822	103-1858-50	2SD1858Q.R
C 310	178-2732-78	0.027 μ F	C 915	176-1011-00	100pF CH	Q 823	125-2004-02	RN1402
C 311	178-2732-78	0.027 μ F	C 916	176-1011-00	100pF CH	Q 901	125-2004-02	RN1402
C 312	183-4763-31	16V47 μ F	C 917	178-8222-78	8200pF	Q 902	102-2712-51	2SC2712G.L
C 421	178-1042-78	0.1 μ F	C 918	178-1222-78	1200pF	Q 903	102-3624-00	2SC3624
C 422	183-4763-11	6.3V47 μ F	C 919	183-6843-62	50V0.68 μ F	Q 906	108-0669-00	2SK669
C 423	176-1501-00	15pF CH	C 920	178-1042-78	0.1 μ F	R 101	117-8221-10	1/10W 8.2k Ω
C 424	176-1801-00	18pF CH	C 921	178-1042-78	0.1 μ F	R 102	117-3331-10	1/10W 33k Ω
C 425	178-2232-78	0.022 μ F	D 101	001-0330-00	1SS119	R 104	117-1021-10	1/10W 1k Ω
C 501	183-3343-61	50V0.33 μ F	D 501	001-0377-20	MA4039M	R 105	117-1021-10	1/10W 1k Ω
C 502	178-4732-78	0.047 μ F	D 601	001-0356-00	1SS184	R 106	117-1231-10	1/10W 12k Ω
C 504	176-5601-00	56pF CH	D 701	001-0377-32	MA4056M	R 107	111-6821-91	1/4WS 6.8k Ω
C 505	176-5601-00	56pF CH	D 702	001-0330-00	1SS119	R 108	111-6821-91	1/4WS 6.8k Ω
C 506	183-4753-62	50V4.7 μ F	D 802	001-0503-38	HZS7 A3L	R 109	117-1031-10	1/10W 10k Ω
C 507	183-4753-62	50V4.7 μ F	D 804	001-0503-45	HZS9B1L	R 110	117-2241-10	1/10W 220k Ω
C 508	178-4712-78	470pF	D 805	001-0377-40	MA4075L	R 111	117-5631-10	1/10W 56k Ω
C 509	178-4712-78	470pF	D 806	001-0503-46	HZS9B2L	R 112	117-1011-10	1/10W 100 Ω
C 510	178-2232-78	0.022 μ F	D 807	001-0330-00	1SS119	R 201	117-3321-10	1/10W 3.3k Ω
C 511	178-2232-78	0.022 μ F	D 808	001-0330-00	1SS119	R 202	117-2231-10	1/10W 22k Ω
C 512	183-2253-61	50V2.2 μ F	D 809	001-0503-35	HZS6C2L	R 203	117-1231-10	1/10W 12k Ω
C 513	183-2253-61	50V2.2 μ F	D 810	001-0330-00	1SS119	R 204	117-1031-10	1/10W 10k Ω
C 516	183-1063-32	16V10 μ F	D 811	001-0367-00	1SS226	R 205	117-3331-10	1/10W 33k Ω
C 517	183-1063-32	16V10 μ F	D 813	001-0367-00	1SS226	R 206	117-1031-10	1/10W 10k Ω
C 518	183-2253-61	50V2.2 μ F	D 816	001-0466-00	S5688B	R 207	111-1521-91	1/4WS 1.5k Ω
C 519	183-2253-61	50V2.2 μ F	D 827	001-0330-00	1SS119	R 208	117-1521-10	1/10W 1.5k Ω
C 521	183-2263-31	16V22 μ F	D 828	001-0377-35	MA4062M	R 209	117-2221-10	1/10W 2.2k Ω
C 522	183-2263-31	16V22 μ F	D 901	001-0330-00	1SS119	R 210	117-1031-10	1/10W 10k Ω
C 524	178-5632-78	0.056 μ F	D 902	001-0330-00	1SS119			

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
R 301	117-3331-10	1/10W 33kΩ	R 702	117-4721-10	1/10W 4.7kΩ	R 902	117-1041-10	1/10W 100kΩ
R 302	117-3331-10	1/10W 33kΩ	R 703	117-4721-10	1/10W 4.7kΩ	R 903	117-1031-10	1/10W 10kΩ
R 303	117-8201-10	1/10W 82Ω	R 704	117-4721-10	1/10W 4.7kΩ	R 905	117-1031-10	1/10W 10kΩ
R 304	117-1241-10	1/10W 120kΩ	R 709	111-2231-91	1/4WS 22kΩ	R 907	117-1031-10	1/10W 10kΩ
R 305	117-4721-10	1/10W 4.7kΩ	R 710	111-1031-91	1/4WS 10kΩ	R 908	117-1031-10	1/10W 10kΩ
R 306	117-4721-10	1/10W 4.7kΩ	R 801	111-1021-81	1/2WS 1kΩ	R 911	117-5621-10	1/10W 5.6kΩ
R 307	117-1241-10	1/10W 120kΩ	R 802	117-1031-10	1/10W 10kΩ	R 913	117-3321-10	1/10W 3.3kΩ
R 308	117-8201-10	1/10W 82Ω	R 803	117-4731-10	1/10W 47kΩ	R 914	117-3321-10	1/10W 3.3kΩ
R 309	117-5611-10	1/10W 560Ω	R 805	117-2231-10	1/10W 22kΩ	R 915	117-3321-10	1/10W 3.3kΩ
R 421	117-1031-10	1/10W 10kΩ	R 807	117-4721-10	1/10W 4.7kΩ	R 916	117-3321-10	1/10W 3.3kΩ
R 501	117-3331-10	1/10W 33kΩ	R 808	111-1091-91	1/4WS 1Ω	R 917	117-1031-10	1/10W 10kΩ
R 502	117-3331-10	1/10W 33kΩ	R 809	111-1091-91	1/4WS 1Ω	R 918	117-1021-10	1/10W 1kΩ
R 504	117-6831-10	1/10W 68kΩ	R 810	111-1091-91	1/4WS 1Ω	R 920	117-4721-10	1/10W 4.7kΩ
R 505	117-6831-10	1/10W 68kΩ	R 811	117-4731-10	1/10W 47kΩ	R 921	117-4721-10	1/10W 4.7kΩ
R 506	117-1031-10	1/10W 10kΩ	R 812	117-1831-10	1/10W 18kΩ	R 922	117-1021-10	1/10W 1kΩ
R 507	117-1031-10	1/10W 10kΩ	R 813	111-4711-91	1/4WS 470Ω	R 923	117-1021-10	1/10W 1kΩ
R 508	117-2231-10	1/10W 22kΩ	R 814	111-2291-91	1/4WS 2.2Ω	R 924	117-3321-10	1/10W 3.3kΩ
R 509	117-2231-10	1/10W 22kΩ	R 815	111-2291-91	1/4WS 2.2Ω	R 928	111-1031-91	1/4WS 10kΩ
R 510	117-3321-10	1/10W 3.3kΩ	R 816	111-2291-91	1/4WS 2.2Ω	R 929	111-1031-91	1/4WS 10kΩ
R 511	117-3321-10	1/10W 3.3kΩ	R 817	117-1021-10	1/10W 1kΩ	R 930	117-1041-10	1/10W 100kΩ
R 512	117-4721-10	1/10W 4.7kΩ	R 818	117-1031-10	1/10W 10kΩ	R 931	117-1031-10	1/10W 10kΩ
R 513	117-4721-10	1/10W 4.7kΩ	R 819	111-4711-81	1/2WS 470Ω	R 932	117-1031-10	1/10W 10kΩ
R 514	117-2231-10	1/10W 22kΩ	R 820	111-1091-91	1/4WS 1Ω	R 933	117-1031-10	1/10W 10kΩ
R 515	117-2231-10	1/10W 22kΩ	R 821	111-1091-91	1/4WS 1Ω	R 934	117-2711-10	1/10W 270Ω
R 516	111-6801-81	1/2W 68Ω	R 822	111-1091-91	1/4WS 1Ω	R 935	117-1231-10	1/10W 12kΩ
R 517	117-1031-10	1/10W 10kΩ	R 823	117-1031-10	1/10W 10kΩ	R 936	111-3311-91	1/4WS 330Ω
R 518	117-1531-10	1/10W 15kΩ	R 824	111-1021-81	1/2WS 1kΩ	R 937	117-1021-10	1/10W 1kΩ
R 519	117-1531-10	1/10W 15kΩ	R 825	117-4721-10	1/10W 4.7kΩ	R 938	117-2221-10	1/10W 2.2kΩ
R 520	117-1031-10	1/10W 10kΩ	R 826	111-1021-91	1/4WS 1kΩ	R 939	111-6821-91	1/4WS 6.8kΩ
R 521	117-1531-10	1/10W 15kΩ	R 827	117-1021-10	1/10W 1kΩ	R 940	117-2211-10	1/10W 220Ω
R 522	117-1531-10	1/10W 15kΩ	R 828	117-1031-10	1/10W 10kΩ	R 941	117-3321-10	1/10W 3.3kΩ
R 523	117-4731-10	1/10W 47kΩ	R 829	117-3311-10	1/10W 330Ω	R 942	117-1031-10	1/10W 10kΩ
R 524	117-4731-10	1/10W 47kΩ	R 830	117-4731-10	1/10W 47kΩ	R 943	117-1031-10	1/10W 10kΩ
R 601	117-3321-10	1/10W 3.3kΩ	R 831	117-1041-10	1/10W 100kΩ	SUP101	060-0122-20	DSP-141N-S00B
R 602	117-1021-10	1/10W 1kΩ	R 832	117-4731-10	1/10W 47kΩ	VR 101	012-5203-60	100kΩ
R 603	117-4721-10	1/10W 4.7kΩ	R 833	117-1041-10	1/10W 100kΩ	X 201	061-3013-00	4.33MHz
R 604	117-1021-10	1/10W 1kΩ	R 834	117-4731-10	1/10W 47kΩ	X 421	061-1066-00	7.2MHz
R 605	117-1031-10	1/10W 10kΩ	R 835	114-2711-11	1W 270Ω	X 901	061-1064-00	4.5MHz
R 701	117-4721-10	1/10W 4.7kΩ	R 901	117-1041-10	1/10W 100kΩ			

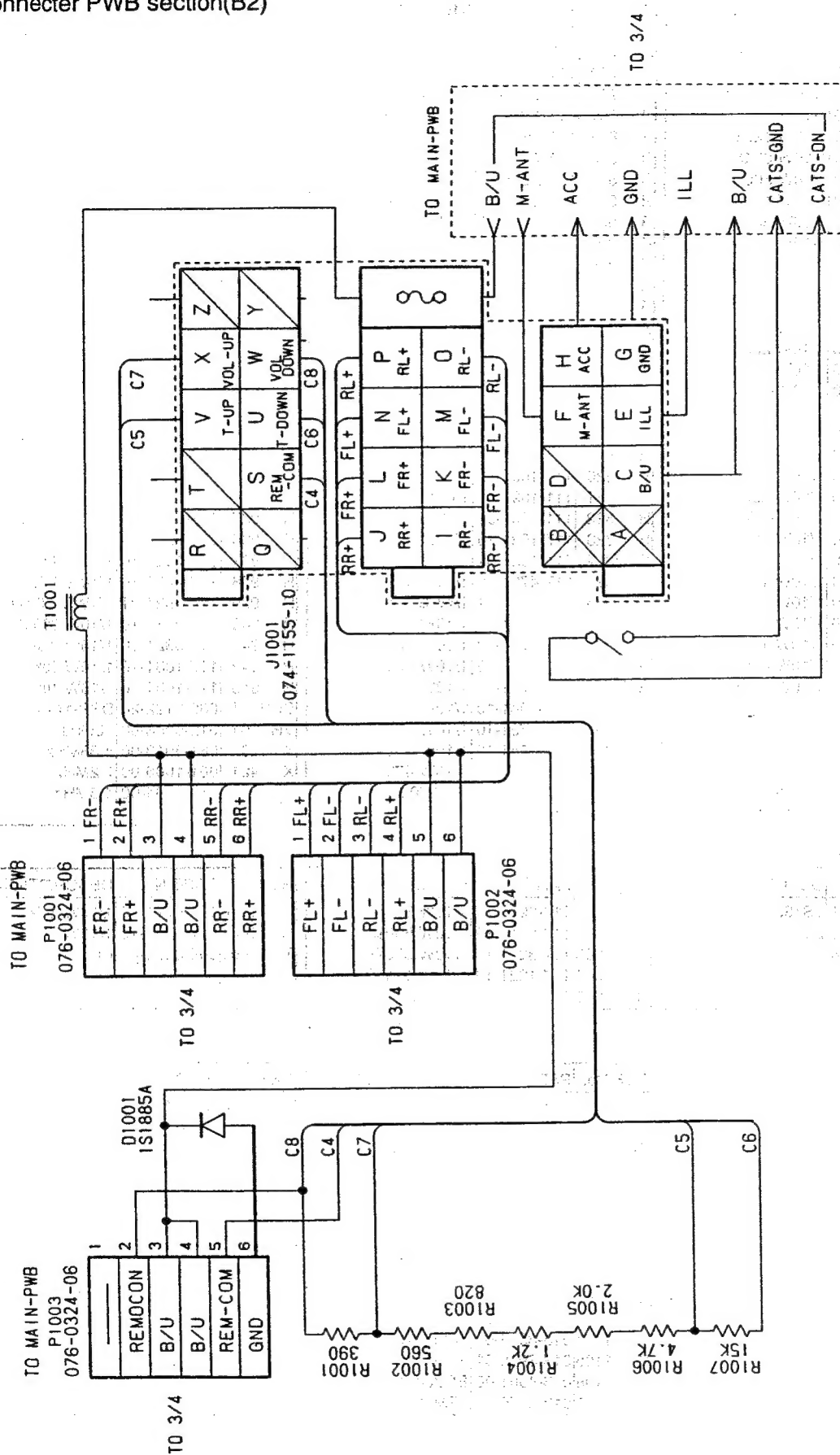
Connector PWB section(B2)

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
D 1001	001-0188-01	1S1885A	R 1001	117-3911-10	1/10W 390Ω	R 1006	117-4721-10	1/10W 4.7kΩ
J 1001	074-1155-10	26P	R 1002	117-5611-10	1/10W 560Ω	R 1007	117-1531-10	1/10W 15kΩ
P 1001	076-0324-06	6P	R 1003	117-8211-10	1/10W 820Ω	T 1001	009-9006-60	Choke
P 1001	076-0324-06	6P	R 1004	117-1221-10	1/10W 1.2kΩ			
P 1003	076-0324-06	6P	R 1005	117-2021-10	1/10W 2kΩ			

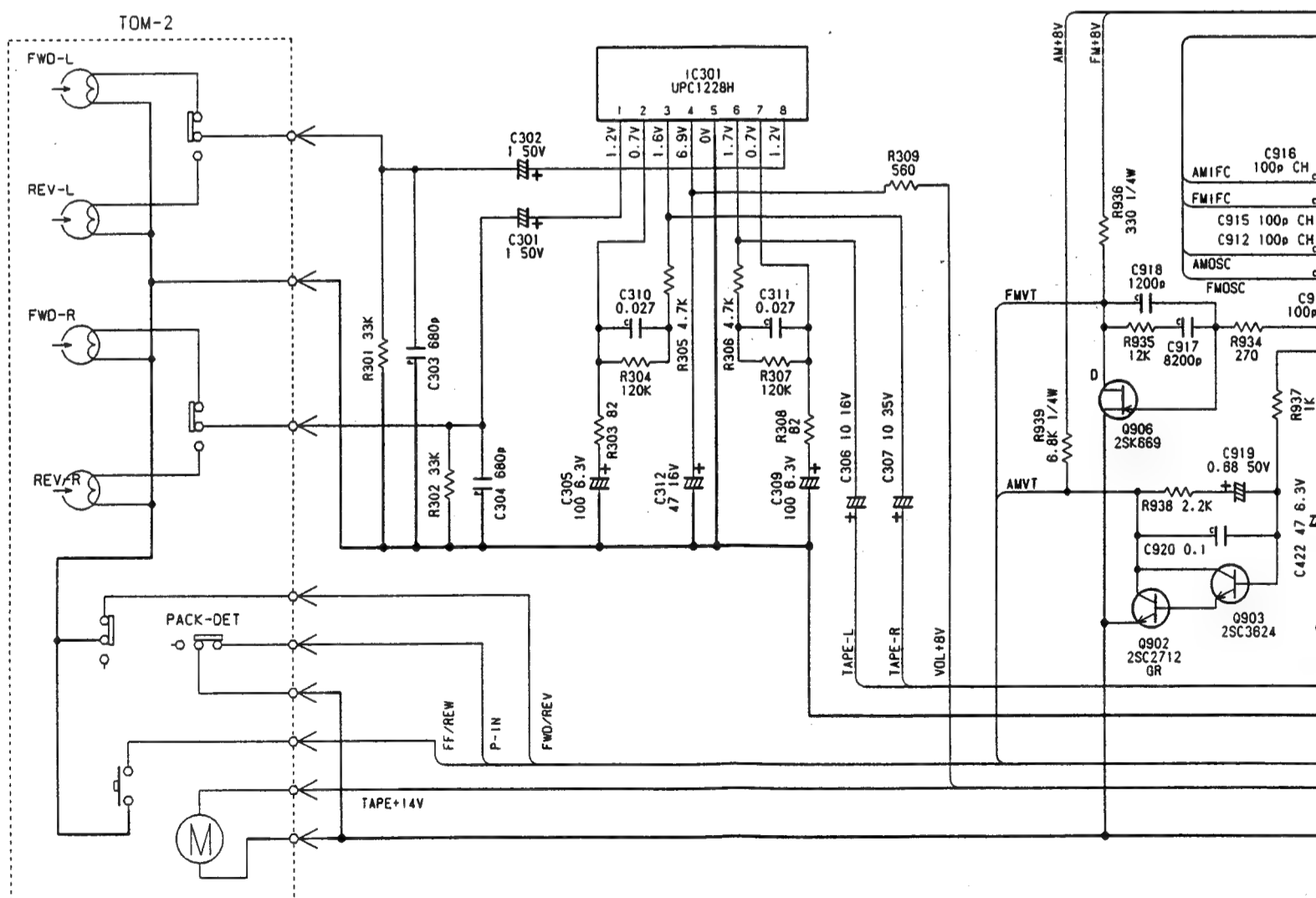
Switch PWB section(B3)

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C 1101	178-1042-78	0.1 μF	PL 1101	017-0420-11	14V40mA	S 1108	013-3978-01	JPM1110
C 1101	178-1042-55	0.1 μF	PL 1102	017-0414-00	8V70mA	S 1109	013-3978-01	JPM1110
C 1102	178-4732-78	0.047 μF	PL 1103	017-0420-11	14V40mA	S 1110	013-3978-01	JPM1110
C 1102	178-4732-55	0.047 μF	PL 1104	017-0414-00	8V70mA	S 1111	013-3978-01	JPM1110
C 1103	178-4732-78	0.047 μF	PL 1105	017-0420-11	14V40mA	S 1113	013-3978-01	JPM1110
C 1103	178-4732-55	0.047 μF	R 1101	117-1031-10	1/10W 10kΩ	S 1114	013-3978-01	JPM1110
C 1104	178-6812-78	680pF	R 1102	117-6831-10	1/10W 68kΩ	S 1115	013-3978-01	JPM1110
C 1104	178-6812-55	680pF	R 1103	117-1021-10	1/10W 1kΩ	S 1117	013-3978-01	JPM1110
D 1101	001-0516-00	MA111	S 1101	013-3978-01	JPM1110	S 1118	013-3978-01	JPM1110
D 1102	001-0516-00	MA111	S 1102	013-3978-01	JPM1110	S 1119	013-3978-01	JPM1110
D 1103	001-0516-00	MA111	S 1103	013-3978-01	JPM1110	S 1120	013-3978-01	JPM1110
D 1104	001-0207-00	TLR124	S 1104	013-3978-01	JPM1110	S 1121	013-3978-01	JPM1110
LCD1101	379-1085-41	LCD	S 1105	013-3978-01	JPM1110	S 1122	013-3978-01	JPM1110
J 1101	074-1152-06	6P	S 1106	013-4001-00	ESB64819XN			
J 1102	074-1152-08	8P	S 1107	013-3978-01	JPM1110			

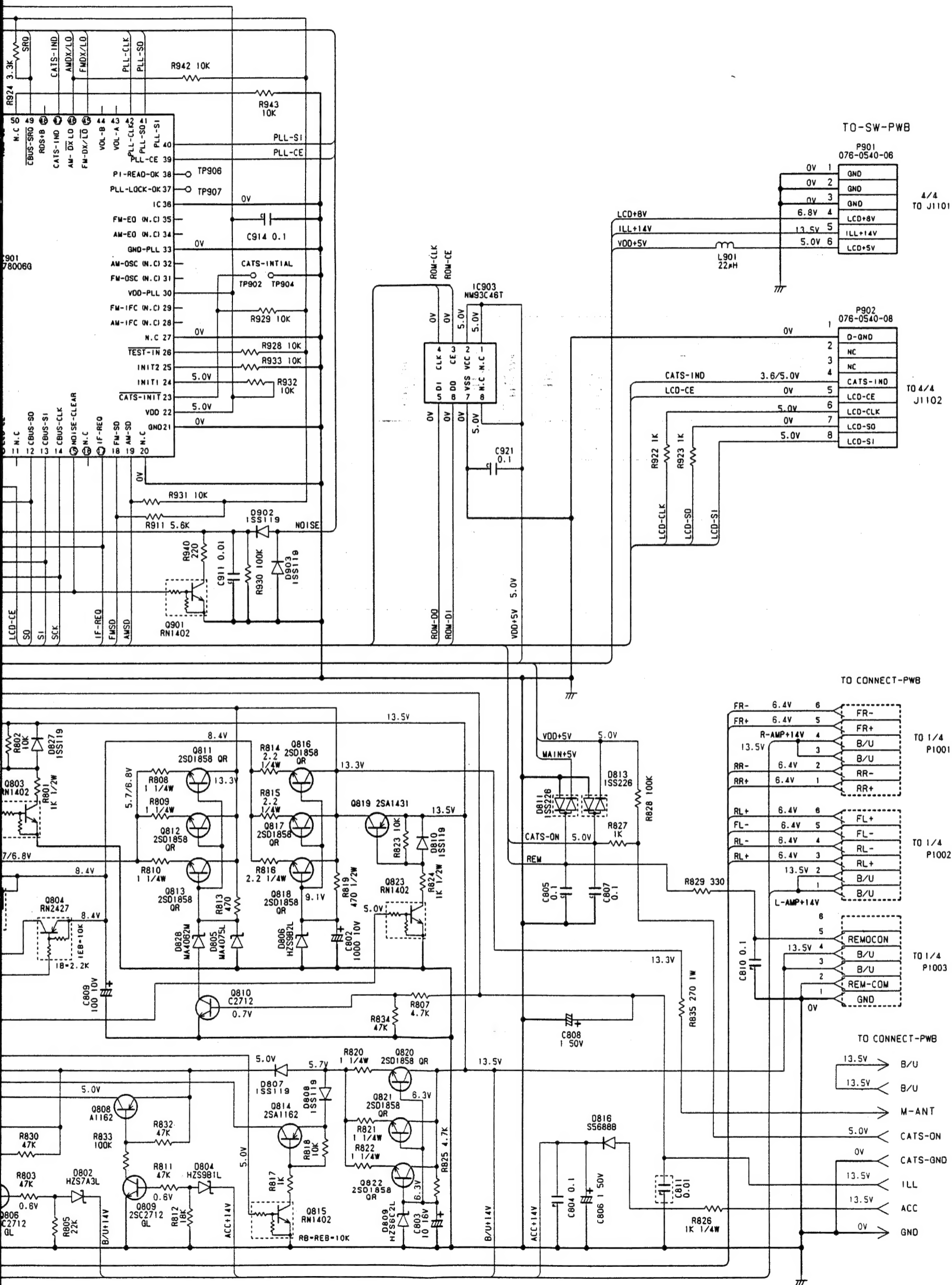
Connector PWB section(B2)



Main PWB section 1/2(B1)



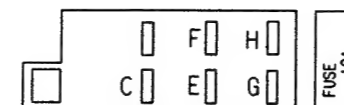
Main PWB section2/2(B1)



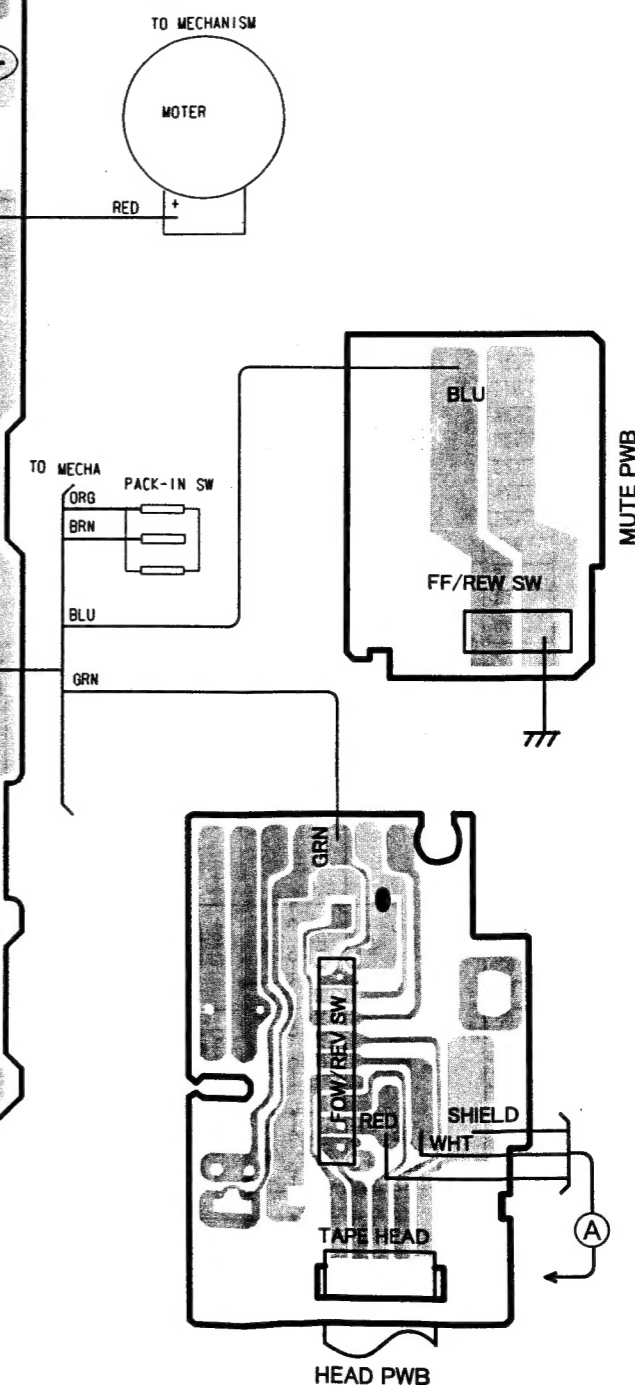
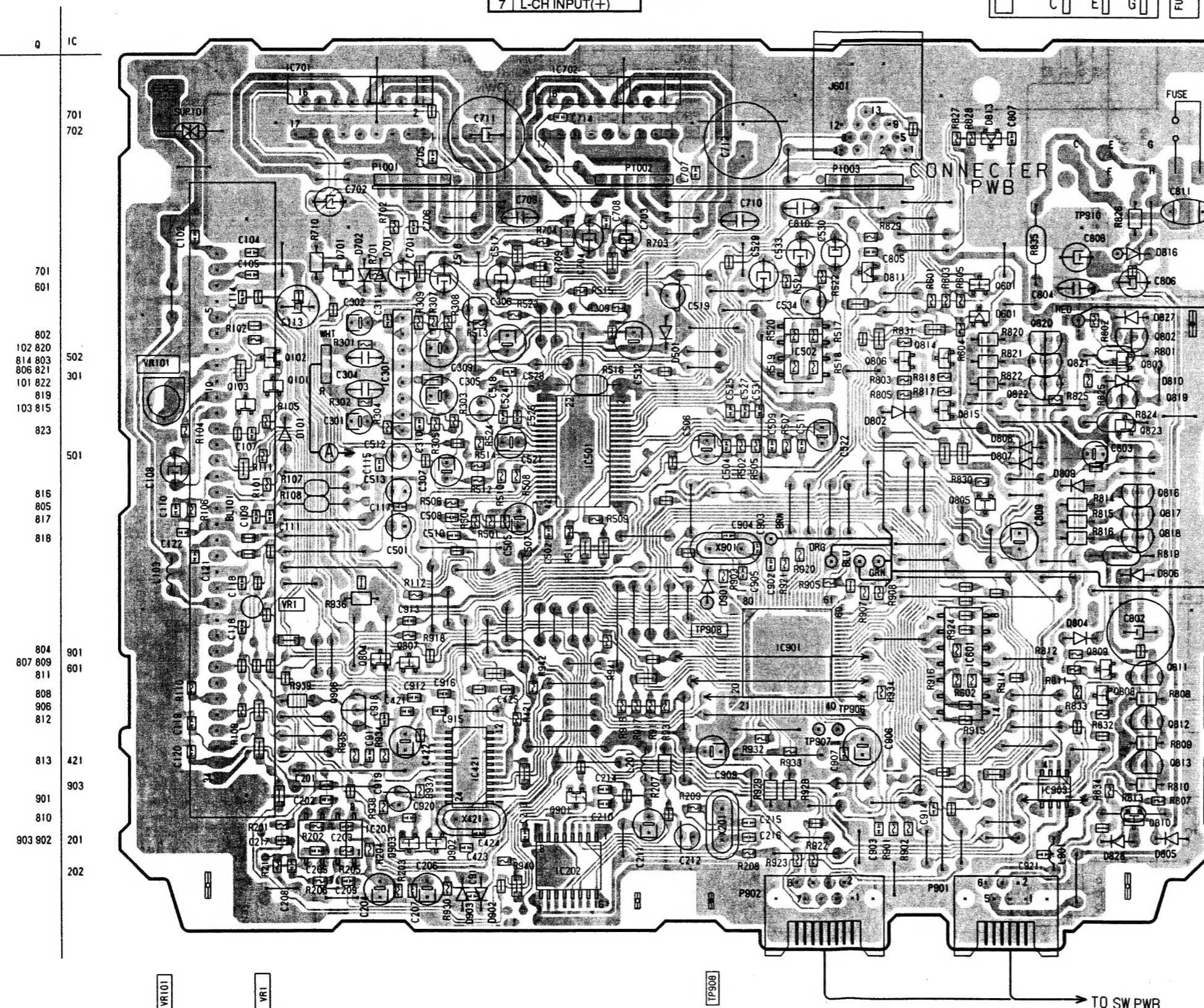
PRINTED WIRING BOARD

Main PWB section(B1)

No.	Description	No.	Description
1	SO/SI	8	R-CH INPUT(+)
2	SCK	9	NC
3	NC	10	BACK UP
4	SRQ	11	ACC CONT
5	NC	12	GND
6	SIGNAL GND	13	NC
7	L-CH INPUT(+)		

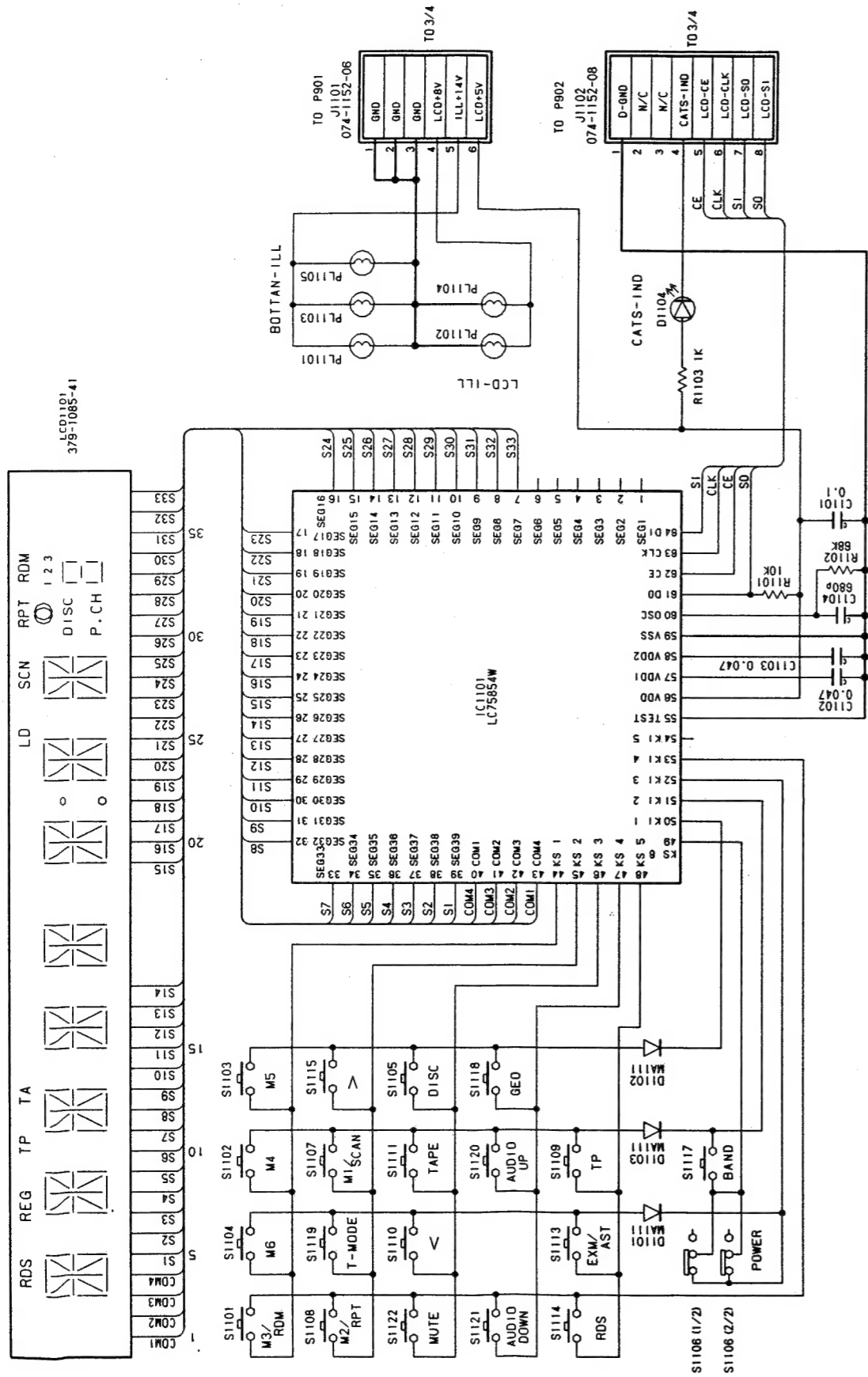


No.	Description	No.	Description
A	NC	N	FRONT SP L-CH(+)
B	NC	O	REAR SP L-CH(-)
C	BACK UP	P	REAR SP L-CH(+)
D	NC	Q	NC
E	ILLUMINATION	R	NC
F	MOTER ANT	S	REMOCON(-)
G	GND	T	NC
H	ACC	U	TUNING DOWN
I	REAR SP R-CH(-)	V	TUNING UP
J	REAR SP R-CH(+)	W	VOL DOWN
K	FRONT SP R-CH(-)	X	VOL UP
L	FRONT SP R-CH(+)	Y	NC
M	FRONT SP L-CH(-)	Z	NC



■CIRCUIT DIAGRAM4/4

Switch PWB section(B3)



■ PRINTED WIRING BOARD

Connector PWB(B2) / Switch PWB section(B3)

No.	Description	No.	Description
A	NC	N	FRONT SP L-CH(+)
B	NC	O	REAR SP L-CH(-)
C	BACK UP	P	REAR SP L-CH(+)
D	NC	Q	NC
E	ILLUMINATION	R	NC
F	MOTER ANT	S	REMOCON(-)
G	GND	T	NC
H	ACC	U	TUNING DOWN
I	REAR SP R-CH(-)	V	TUNING UP
J	REAR SP R-CH(+)	W	VOL DOWN
K	FRONT SP R-CH(-)	X	VOL UP
L	FRONT SP R-CH(+)	Y	NC
M	FRONT SP L-CH(-)	Z	NC

